



STR Analysis

Objective

STR analysis of 12 alleles in 1000 genomic DNA samples.

Starting Materials

1000 human genomic DNA samples from whole blood.

Methods

1. DNA quantification: 20 DNA samples were quantitated by NanoDrop.
2. DNA dilution: all DNA samples were diluted to a final concentration within 1-10ng/μl.
3. STR analysis: all procedures follow ABI protocol.
4. Analysis platform: ABI 3100 Genetic Analyzer

Results

NanoDrop results: see Table 1.

Table 1. NanoDrop results of 20 randomly selected DNA samples

Sample	Nanodrop Conc (ng/μl)	260/280 ratio
1	184.37	1.86
2	65.08	1.81
3	141.59	1.82
4	155.09	1.86
5	113.97	1.3
6	105.45	1.8
7	114.85	1.87
8	64.45	1.87
9	157.94	1.82
10	132.76	1.85
11	50.07	2.14
12	116.41	1.79
13	31.46	1.52
14	85.67	1.85
15	103.63	1.81
16	89.34	1.62
17	96.17	1.81
18	103.58	1.81
19	140.03	1.9
20	131.87	1.81

DNA dilution: according to Nanodrop result, all DNA samples were diluted 20 times. The final concentration is from 1.5-9ng/μl.



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STR analysis: after PCR, the plates were analyzed by ABI 3100 (Figure 1). All samples generated satisfactory allelic call (Table 2).

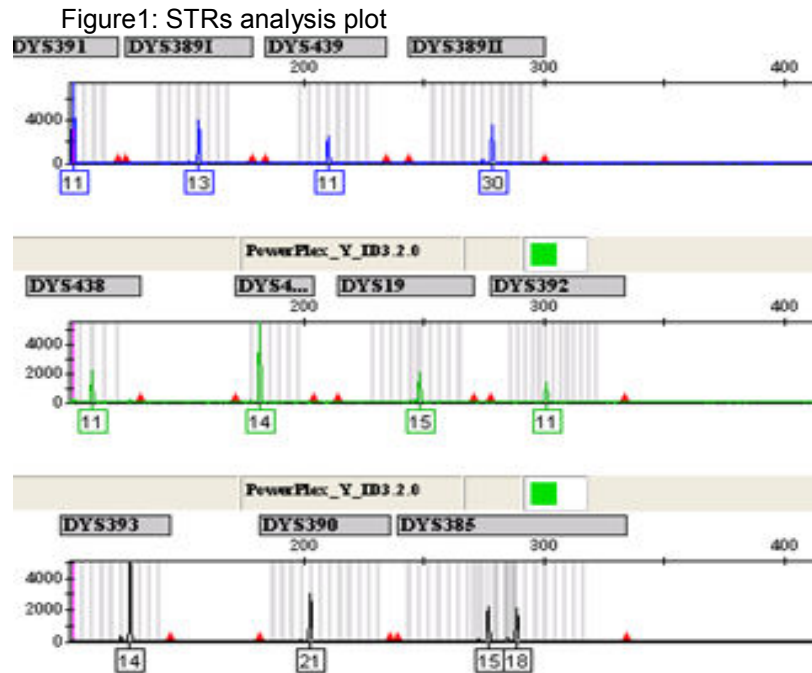


Table 2: Exported STR analysis result (Partial)

Sample Name	Panel	Marker	Dye	Allele 1	Allele 2
1	2.0	a	B	6	8
1	2.0	b	B	10	11
1	2.0	c	B	8	
1	2.0	d	B	24	
2	2.0	a	B	8	9
2	2.0	b	B	13	14
2	2.0	c	B	10	
2	2.0	c	B	7	
3	2.0	a	B	8	9
3	2.0	b	B	7	8
3	2.0	c	B	7	
3	2.0	d	B	7	

Conclusion:

Of 1000 samples, 968 generated clear peaks and positive STR calls. The other 32 failed due to low quality of DNA samples.

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